TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE

INVENTOR(S): YOJI SAKAGAMI ET AL.

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н	TITAAGCAICTCTCCCTICAAAGAAAATAICACAAAATGGCAAACGICTCCGCTITG M	09
61	CTCACCATAGCTCTTCTTTGCTCCACGCTAATGTGCACTGCCCGGCCCGAACCGGCC	120
121	ATCTCCATCTCTATCACGACTGCCGATCCATGTAACATGGAGAAGATAGAAGGA I S I S I T T A A D P C N M E K K I E G	180
181	AAATTAGATGACATATGGTAGAAGAAAACTGTGGTGCAGACGACGAAGATTGCTTA K L D D M H M V E E N C G A D D E D C L	240
241	ATGAGGAGGACTTTGGTCGCTCATACTTACATCTATACCCAGAAGAAGAAGCATCCT M (R) (R) T L V A H T D <u>X I Y T Q</u> (K) (K) H P	300
301	TGATTTTCACTTACTCTTTCTAACAACTTTTGCTCAAGATTATGTAATTTATGTCATC *	360
361	CTTAATTAGTATTTGTCACATACAAGATCAAGATAGTTATGATTGTGATTATATATGT	420
421	ATTTTGGATGATATATTGTAGAACTAGAAGTTTGACAATAAAAAAGTTTATAGTGTCGTTG	480
481	TATGTTTAAGAAGTTTGACAATAAAAACTTTATAGTGTTGTTGCAAAAAAAA	540
541	AAAAA 545	

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INVENTOR(S): YOJI SAKAGAMI ET AL.

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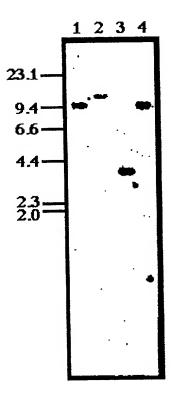
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121	acgacaaccaccgctttgtccagagaaactccgtcaaggaaattgaaggagacaaggtt t t t t a l s r e n s v k e i e g d k v	180
181	Gargargaraccaaccgaattggagaagaagaagattgataagacgaagccttctt e e e s c n g i g e e e c l i (R) (R) s l l	240
241	CTTCACACCGATTACATTATACTCAGAATCACAAGCCCTAAGTTTCTGTATTAGAGCAA	300
301	T <u>TAATTAA</u> CTAATTACATTATCAACCTATCACTGTAGTACTTTCTGTTTTTCTGTTCGTC	360
361	tittigtittgtittgtttatgttatcgctattttaaagtttcattgttatgaaag	420
421	TICTIACACCATCATTATTGATAGICTCTTAAAAACAAAAAAAAAA	479

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INVENTOR(S): YOJI SAKAGAMI ET AL.

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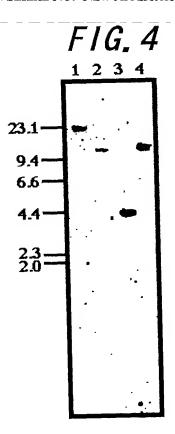
FIG. 3



TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE

INVENTOR(S): YOJI SAKAGAMI ET AL.

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OsPSK	1: HYN-J	GRTAR.	PTCTT	CLA	لملتليا	YMTH:	SKE	29
AtPSK2	1:HANY	SALLTI.	AL-LL	CST	LHCT	ARPEPA	IIS	29
	* *		** **		*			
OsPSK	30:L-LL	QEKHSH	GYGNG	TIT	TQEP	SRENG	SST	58
AtPSK2	30:ISIT	TAADPC	NHEKE	IEG	KLDD)	HHYE	ENC	59
റംഇയ്യ	59:GSNN	NGOI OF	DSAKI	माम	TTDY	I YTOD'	YKN	88
	60:GADD							
TI CIL DIXE	*	*				***	*	
OsPSK	89:P							89
AtPSK2								87
	±							

TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE

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FIG. 6

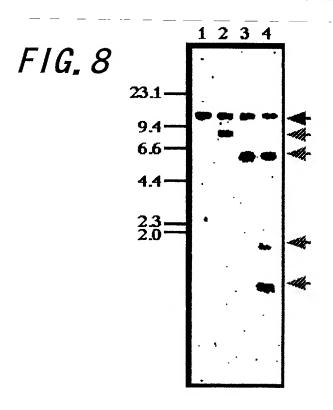
Ospsk Atpskl	1:MGKFT-TI-FI-MAI		·		
	31:LLQEKHSHGYGNGTTTTQ	-			
ACPSEL	25: TPTTTTALSRENSVKEIF	*	eesc.	¥ WQT	59
Ospsk	61: NNNGQLQFDSAKVEEFHT	DYIYT	ODYK	NP	89
Atpskl	55:GEEECL-I-R-RSLLLH	TYIYT	ONHK	-P	79
	* **	***	* *	¥	

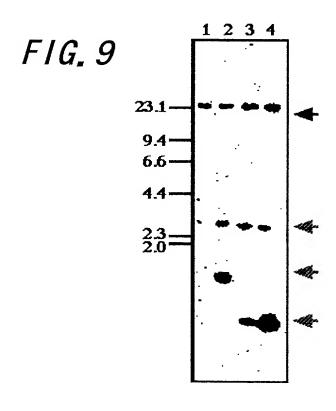
AtPSK2	1: MANYSALLTIALLLCSTLMCTARPEPAISI	30
Atpskl	1:MGKFTTIFIMALLLCSTLTYAARLTPTTTT	30
	* ******* ** *	
AtPSKZ	31:SITTAADPCNHEKKIEGKLDDHHNYEENC-	59
AtPSKL	31: ALSR-EN-SY-KEIEG-DKYE-EESCN	52
	* *** * ** *	
AtPSK Z	60:GADDEDCLHRRTLVAHTDYIYTQKKKHP	87
AtPSKL	53:GIGEEECLIRRSLLLHTDYIYTQNHK-P	79
	* * ** ** * ******	

APPLN. FILING DATE: FEBRUARY 21, 2002

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INVENTOR(S): YOJI SAKAGAMI ET AL.
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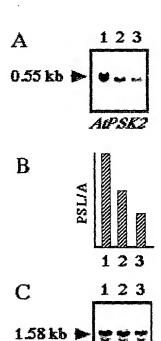


 $\begin{tabular}{ll} \textbf{FITLE:} & A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE \\ \end{tabular}$

INVENTOR(S): YOJI SAKAGAMI ET AL.

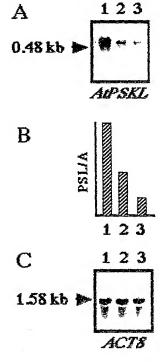
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FIG. 10



ACT8

FIG. 11



TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE INVENTOR(S): YOJI SAKAGAMI ET AL.

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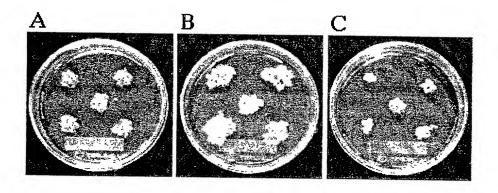
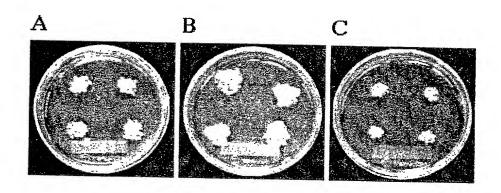


FIG. 13



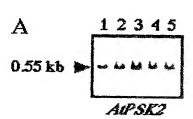
TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM

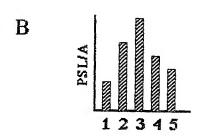
ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE

INVENTOR(S): YOJI SAKAGAMI ET AL.

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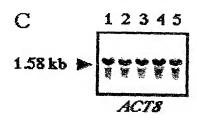
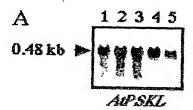
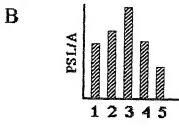
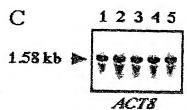


FIG. 15







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FIG. 16

